



# UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/904,824	09/904,824 07/12/2001		Horatio Lo	M-8325-1P US	7988	
33031	7590	01/14/2004		EXAMINER		
CAMPBEL 4807 SPICE		ENSON ASCOLI	SHIN, CHRIS	SHIN, CHRISTOPHER B		
BLDG. 4, SI		KINGS KD.	ART UNIT	PAPER NUMBER		
AUSTIN, T	X 78759		2182	0		
	•	<b>∵</b> •		DATE MAILED: 01/14/2004	8	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicati n No.	Applicant(s)	
	_	09/904,824	LO ET AL.	
	Office Action Summary	Examin r	Art Unit	
		Christopher B Shin	2182	
Peri d fo	The MAILING DATE of this c mmunicati	n appears on the cover sheet wit	h the c rresp ndence ac	ddress
	• •	AFRI VIC CET TO EVOIDE AM	NATIVO FROM	
THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory pere to reply within the set or extended period for reply will, by reply received by the Office later than three months after the period patent term adjustment. See 37 CFR 1.704(b).	ON.  FR 1.136(a). In no event, however, may a re on.  , a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT statute, cause the application to become ABA	ply be timely filed (30) days will be considered timel HS from the mailing date of this of the constant of the	
	Responsive to communication(s) filed on	14 October 2003		
,		This action is non-final.		
′_	Since this application is in condition for al		are prosecution as to the	a marite ie
۵)	closed in accordance with the practice un			c ments is
Disposit	ion of Claims			
4)⊠	Claim(s) <u>1-85</u> is/are pending in the applic	ation.		
	4a) Of the above claim(s) 2-85 is/are with	drawn from consideration.		
5)	Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>1</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
8)□	Claim(s) are subject to restriction a	and/or election requirement.		
Applicati	ion Papers			
9)	The specification is objected to by the Exa	miner.		
10)[	The drawing(s) filed on is/are: a)	] accepted or b)□ objected to b	y the Examiner.	
	Applicant may not request that any objection to	o the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the c	orrection is required if the drawing(s	s) is objected to. See 37 C	FR 1.121(d).
11)	The oath or declaration is objected to by the	ne Examiner. Note the attached	Office Action or form P7	TO-152.
Priority ι	ınder 35 U.S.C. §§ 119 and 120			
	Acknowledgment is made of a claim for for All b) Some * c) None of:  1. Certified copies of the priority documents of the priority documents.	ments have been received.	,,,,,	
* 0	Certified copies of the priority documents of the certified copies of the application from the International Base the attached detailed Office action for the certified copies.	priority documents have been rureau (PCT Rule 17.2(a)).	eceived in this National	Stage
13) <u></u>	Acknowledgment is made of a claim for dor ince a specific reference was included in the 7 CFR 1.78.	mestic priority under 35 U.S.C. §	119(e) (to a provisiona	
а	) $\square$ The translation of the foreign languag	e provisional application has be	en received.	
	Acknowledgment is made of a claim for dor eference was included in the first sentence		•	•
Attachmen	t(s)			
	e of References Cited (PTO-892)		mmary (PTO-413) Paper No(	
	e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449) Paper N		ormal Patent Application (PTC .	O-152)

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03)

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#### **DETAILED ACTION**

1. The amendment received October 14, 2003 has been entered and carefully considered. Claim 1 has been amended and claims 2-85 have been newly added, which raises new subject matters are that not originally presented; therefore, are withdrawn from consideration.

In claim 1, line 4, examiner notes that the word "routers" should have bee "routers", i.e., the underline wasn't necessary because the original claim 1 already had "routers".

### Response to Arguments

- 2. Applicant's arguments filed October 14, 2003 have been fully considered but they are not persuasive.
- a. In response to the arguments on pages 16-19, the examiner modifies for better explanation of the art rejection without changing the Art rejection (35 USC 102e) as follows. More specifically, the examiner's interpretations of the "storage router" is a router that is connected to I/Os, peripherals or storage as taught by the Horst reference.

#### Original Presentation

- 3. Newly submitted claims 2-85 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:
- i. Claim groups 2-25 are directed to storage network interface multiport controllers; group 26-47 are directed to storage interface devices; and group 48-85 are directed to a storage virtualization engine. The all of the groups include limitations that were not originally presented that will require additional search and consideration.
- ii. The Examiner suggest the applicant to separate the above groups into three additional/ independent inventions.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 2-85 are withdrawn from consideration as being directed to a non-elected invention. See 37 C.F.R. § 1.142(b) and M.P.E.P. § 821.03.

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# Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 5. Claim 1 is rejected under 35 U.S.C. 102(e) as being clearly anticipated by Horst et al. (6,233,702).
- a. Examiner notes that the entire teachings of Horst reference is relied upon, though not all section of the Horst reference has been explicitly discussed, for the follow rejection.
  - b. In figure 1B, Host teaches all of the claimed limitations as follows:

#### Claim 1

### Horst Reference

- distributed storage management platform architecture comprising
  - feature of figure 1B
- a plurality of storage routers
  - feature of 14B, connected to 16A-I/O, of figure 1B, See also columns 4-5, lines 68-1, see also column 2, line 33 (disk storage), column 22, line 58 (storage controllers); examiner interprets the above teachings with router(s) connected to peripherals such as storage, which is functionally equivalent to the broadly claimed "storage router"
- each one of said storage routers comprises a plurality of interface controllers
  - feature of ports (0,1,2,3,4,5) of each router (14B), see also figure 2, in connection with figure 1B & 1C
- one of said interface controllers of each one of said storage routers is communicatively coupled to a one of said interface controllers of at least one other of said storage routers

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- feature of LA, L' of figure 1B

c. For the above reasons, the claim 1 is clearly anticipated by the teachings of the Horst reference.

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any Response To This Action Should Be Mailed To:

# If The Action Is Non-Final

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### or faxed to:

(703) 892-9306, (for formal communications intended for entry)

### If The action is Final

**Box AF** 

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### or faxed to:

(703) 892-9306, (for formal communications; please mark "EXPEDITED PROCEDURE")

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## Hand-delivered responses should be brought to

U.S. Patent and Trademark Office 2011 South Clark Place Customer Window Crystal Plaza Two, Lobby, Room 1B03 Arlington, VA 22202

# Any Other Telephone Communication Should Be Directed To

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Shin whose telephone number is (703) 305-9658. The examiner can normally be reached on Monday - Thursday from 7:00 AM to 4:00 PM.

Christopher B. Shin January 9, 2004 Christopher B. Shin
PRIMARY EXAMINER

PRIMARY EXAMINER
ART UNIT 2182

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